

**Though cyanide acts on the ETC, cyanide poisoning also has important consequences for glycolysis since both the ETC and glycolysis are involved in the production of energy. Thinking back to the regulation of enzymes in glycolysis, how would you expect the activity of key enzymes in glycolysis such as PFK-1 to change in response to cyanide poisoning?**

Answer:

Reduced ATP levels would activate the PFK-1

Explanation:

Phosphofructokinase-1 is a regulatory enzyme and serves as one of the major points of regulation in glycolysis. The enzyme phosphofructokinase-1 (PFK-1) catalyzes the phosphorylation of fructose 6-phosphate to obtain fructose 1, 6-bisphosphate. Here, ATP serves as a phosphate group donor. The activity of PFK-1 is increased whenever the cell's ATP levels are reduced.

On the other hand, increased cellular levels of ADP and AMP activates the enzyme. The increased ATP levels of cells inhibit the enzyme. Cyanide inhibits the ETC and thereby, reduces the ATP levels of the cell. Therefore, reduced cellular ATP levels caused by cyanide poisoning would activate the PFK-1.

Why is a fat-free diet dangerous? It can cause the body to break down muscle tissues.

It can result in a deficiency of essential carbohydrates.

It can result in a deficiency of essential fatty acids.

The type of chemoreceptor responsible for our sense of smell is called a(n) \_\_\_\_\_.

Which statement is true of chloroplasts? a. They transport glucose into the cell.

b. They convert light energy into chemical energy.

c. They are present in animal cells, but not in plant cells.

d. They convert the energy in glucose into a more usable form.

please help 25 points

a spinner is divided into eight equal parts numbered 1 to 8. if the spinner is spun once, what is the probability that it stops on a number that is a multiple of 2?

Can someone tell me what is  $\pi \times 5$

$(-4-3)(1-(3+5)) \times 5 =$

how do you solve that problem ?

Find the Percent Change.

TV was reduced from \$300 to \$200.?

Which of the following is not part of defining a function

(a) Find  $z$  such that the proportion of observations that are less than  $z$  in a standard normal distribution is 0.36. (Enter your answer rounded to two decimal places.) (b) Find  $z$  such that 36% of all observations from a standard normal distribution are greater than  $z$ . (Enter your answer rounded to two decimal places.)

Use the vertical line test to determine which graph represents a function

0.368 written in expanded form

Which reaction directly contributes to acid precipitation?  
 $S + 2O_2 \rightarrow SO_4^{2-}$   
 $SO_3 + H_2O \rightarrow H_2SO_4$   
 $6CO_2 + 6H_2O (+ \text{light energy}) \rightarrow C_6H_{12}O_6 + 6O_2$   
 $2N_2 + 6H_2O \rightarrow 4NH_3 + 3O_2$   
 $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$

Plz help! Cattle ranchers and dairy farmers rarely allow all of their animals to reproduce instead they practice selective breeding and only encourage the reproduction of animals with specific features.

Which of the following cows would a dairy farm most likely choose to reproduce?

A. A cow that makes a lot of milk.

B. A cow that can run quickly.

C. A cow with a thick, soft fur.

D. A cow with large, strong hooves.

I need an explanation of how to solve an equation after I've used the Law of Sines  $(\sin 31)/x = (\sin 125)/14$

I cross multiplied and isolated my variable

$$14(\sin 31) / \sin 125 = x$$

but I don't know my next step, or if I'm right so far

Which of the following does not belong in a conclusion paragraph? a. an attention grabbing sentence.

b. a restated thesis sentence.

c. a conclusion sentence.

d. a summary of supporting details

Do most living things require nitrogen to change food into energy?

What is central idea?

Araceli is a team member in a large corporation. She never speaks in team meetings because she has seen members talk behind each other's back after the meetings. Members are constantly monitoring the other members' work, looking for mistakes to point out in a meeting. According to the information provided, which contextual factor is most likely hindering the success of Araceli's team?

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